Work Orde March-01-13 1:5		002		*980	102*						Page 1
Revision ID:	D4017-9			Accept	*N900	040	100)* s	Setup Star Stop	I	S1* S2*
	3/08/13 3/08/13	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					
Approvals:	Process Plan	n: MLJ	Date: 13-03-01	Tooling:	D	·.	F	Run Star	1/1	R1*	
	QC:		Date:	SPC (Y/N):	Date:				Stop	° *N	R2*
Sequence ID/ Work Center ID		Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revi	ision Nbr						· · · · · · · · · · · · · · · · · · ·			
D4017	D	:								1	
*100 *100* Large Fab Large Fab			as per dwg D4017 nd remove identify marks	0.00				<u>(1)</u>	IJ	13.8	15.02
110		QC6- Inspect dimensions	s to drawing	0.00						0	04 09
*11 0 *		Memo	-	0.00				(D)	13-0	2.07	S. 89
Quality Control								:			
120 *120*		Identify as per dwg & St	ock Location: WAODY	0.00				(01)	I.	12 2	<u>5.02</u>
Packaging		Memo		0.00				<u> </u>	J	15.0	<u>ں . س</u> ي

Packaging

NCR:	Yes	/ No				WORK ORDER NON-C	O	NFORM	MANCE / UPD	ATE	•				
											QA Closed:	Date:			
Work Orde	ar.					DISPOSITION			AGAINST DEPARTMENT/PROCESS						
Work Order: Part No. NCR No.						Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite				Small Fab Finishing		Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other		
Root					Descri	ption of work order update	on of work order update In			on	Sign &				
Cause		Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	QC Inspector		
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training Unapproved						·					•				
						F.	AUL	T CATE	GORY						
Landi					_	General		7			1	_	7 .		
	Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube				o/s	Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short	Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread				Ovalized Over/Under Part Incorred Part Lost/Mi Part Moved Positioned V	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other		
		Ripples in	Bend			Drill Holes	Offset								

Out of Calibration

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drawing

Finish

Folio

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Work Orde		8002		*980				Page 2			
Item ID: Revision ID: Item Name:	D4017-9			Setup Star	1/1	S1* S2*					
Start Date: Required Date:	3/08/13 3/08/13	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item 1 Customer:						
Reference:	 				· .		-	 F	Run Stai	† *NI	D4*
Approvals:	Process P	Plan: Date: Date:		Tooling: SPC (Y/N):		Date:Date:			Stop	° *N	R1*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130 *130* QC		QC21- Final Inspection -	Work Order Release	0.00					13	15/6	#

Memo

Quality Control

											DQA:	Date		
NCR:	Yes	/ No				WORK ORDER NON-CONFORMANCE / UPDATE								
											QA Closed:	Date		
Manda Ond						DISPOSITION			AGAINST	DE	PARTMENT	PROCESS		
Work Ord	er: .					Rework]		Skid-tube Crosstube			Water Jet	Engineering	
Part I	No.					Scrap	1	۱ . ا	Machining Small Fab		Pro	d. Eng. Coor.	Quality	
	•					Use-as-is		Therm	noforming Finishing		Rec/Stor	e/Packaging	Other	
NCR I	No.					Work Order Update			Large Fab Composite	Supplier [
Root					Descri	tion of work order update	i	Initial Action			Sign &			
Cause		Date	Step	Qty	C	or Non-conformance	Ch	ief Eng	Description		Date [.]	Verification	QC Inspector	
Doc/Data											.			
Equip/Tooling												,		
Operator														
Material	Ш													
Setup														
Other		!										:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Process						•								
Supplier														
Training	_													
Unapproved		L	<u>l</u>	<u> </u>			<u> </u>	T CATE	CORV		<u> </u>			
			 			General	AUL	. CATE	GURY	_				
Landi		Bending				Bend		Grain			Ovalized	Γ	Pressure/Forced	
	\vdash	Centre N	at Cancai	ntric to	0/5	BOM/Route	-	Hardwa	ro	-	Over/Under	tolerance	Temperature/Cure	
	-	Cracks	ot concei	intric to	^{0/3}	Broken/Damaged	\vdash	1	on Incomplete		Part Incorre	 	Weld	
	_	Crushed/	Crimned		-	Burrs	-	1	ions Incomplete/Unclear	\vdash	Part Lost/M	├	Wrong Stock Pulled	
	\vdash	Cuffs	cimpeu.	•	-	Contamination	-	Mainte	·	\vdash	Part Moved			
		Heat Trea	at			Countersink		Mislabe		 	Positioned V	Vrong		
	Heat Treat					Cut Too Short		Misread			Power Loss/		Other	

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

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Ripples in Bend

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

Picklist Print

March-01-13 1:57:33 PM

Work Order ID:

98002

Parent Item:

D4017-9

Parent Item Name:

Rib

Start Date: 3/08/13

Required Date: 3/08/13

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP RevA: new issue DD 09.11.26 verified by:EC

IPP Rev:B as per dwg RevA DD

10.03.06 verified by:EC IPP Rev:C as per dwg RevB DD 10.04.16 verified by:EC Rev:D as per dwg revC DD 10.08.18 verified by:EC IPP Rev:E 11.01.17 chg qu

IPP Rev:E 11.01.17 chg qc5 to 6 DD

verf:EC

													
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M304TS0.500W.049		Purchased	No			100	f	735.1203	2.28166	2.40174	74		
Square Tubing				Location		Loc Oty	<u>Lo</u>	c Code	MI	22938	? → 23	3	· · · · · · · · · · · · · · · · · · ·
				WA006		735.1203313					0 1		
				1184	160	0.00001534					J.J.	12.0	50
				1218	308	0.07			-				
				1229	938	257					•		
				123:	565	478.050316							

											DQA:	Date	•		
NCR:	Yes	/ No				WORK ORDER NON-	COI	VFORM	ANCE / UP	DATE					
											QA Closed:	Date	· ·		
Work Orde	or:					DISPOSITION		AGAINST DEPARTMENT/PROCESS							
WOIK OIG	٠	-				Rework		Skid-tube	Crosstube]	Water Jet	Engineering .			
Part 1	No.					Scrap		Machining	Small Fab	Pro	d. Eng. Coor.	Quality			
	-					Use-as-is	Therm	noforming	Finishing	Rec/Sto	re/Packaging	Other			
NCR I	No.					Work Order Update			Large Fab	Composite	Supplier				
Root					Descri	ption of work order update	Initial	nitial Action							
Cause		Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Desc	ription	Date	Verification	QC Inspector		
Doc/Data															
Equip/Tooling									•			`			
Operator	Ш														
Material	\square														
Setup	Ш														
Other															
Process															
Supplier			1												
Training															
Unapproved															
						F	AUI	T CATE	GORY		· · · · · · · · · · · · · · · · · · ·				
Landi	ing G	iear				General		-		,	٦	_	_		
	Ш	Bending				Bend		Grain			Ovalized	_	Pressure/Forced		
	Centre Not Concentric to O/S					BOM/Route		Hardwa	re		Over/Under	tolerance	Temperature/Cure		
	Ш	Cracks		Broken/Damaged					on Incomplete		Part Incorre	ct	Weld		
	Ш	Crushed/	Crimped.			Burrs		Instruct	ions Incomplete/	Unclear	Part Lost/M	issing	Wrong Stock Pulled		
		Cuffs				Contamination		Mainte	nance		Part Moved				
		Heat Trea	it			Countersink		Mislabe	led		Positioned \	Wrong	_		
		Inspectio	n Strip in	Tube		Cut Too Short		Misread	I		Power Loss/	'Surge	Other		
	Ripples in Bend					Drill Holes		Offset							

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Torque Waves in Extrusion

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